



سلسلة كتب الأستاذ

ICT



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Lesson 1

» Important Exploration Tools:

1 Rover C4:

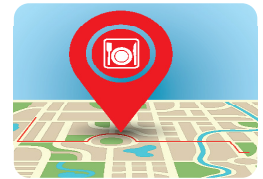
- It's a developed metal detector and 3D ground scanner.
- It's used to search for metals and treasures underground.
- It creates 3D images of scanned areas to identify the location and depth of potential targets.



2 GPR: It uses the radar to detect objects buried underground.

3 Magnetometer: It measures the magnetic field and detects metals under the ground.

4 GPS: It uses satellites to find locations.



Lesson 2

» **Computers:** They're electronic devices that store, process, and restore data.

» **Computers are important** to write documents, create presentations, create videos, browse the Internet, and play games.

» **Computers devices come in different sizes and shapes:**

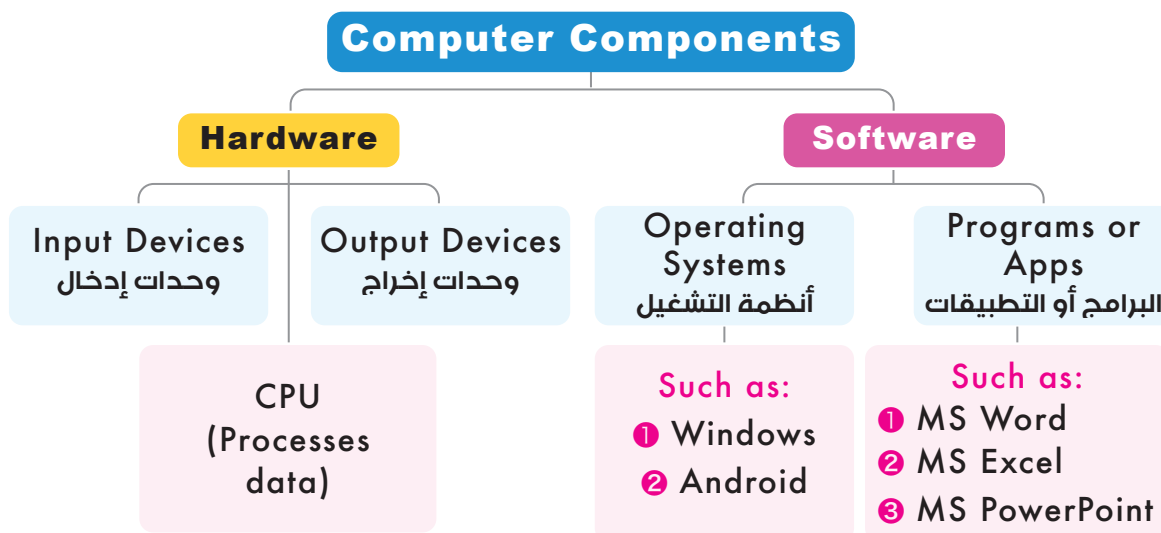
Input Devices		Output Devices	
1 Keyboard	• To type letters and numbers.	1 Screen	• It shows what you are doing on the computer.
2 Mouse	• To select and move things easily.	2 Speaker	• To output sound .

③ Camera	To input images or videos into the computer.	③ Printer	To output texts or images from your computer on paper.
④ Microphone	To input sound, audio, and music into the computer.	④ Braille terminal	It allows blind people to use computers.
⑤ Touch Screen	It allows the user to move things on the computer.	⑤ Speech synthesizer	- It allows non-verbal people to speak. (How?) - It changes text to speech.

NOTES:

- A **touch screen** can be used as an **input device** and an **output device**.
- The most important element of the computer system is **you, the user**.

Lesson 3



» Types of software:

1 Operation system:

- (Like Windows) It opens and runs the program you want to use.

2 Programs: Like MS Word, it's used to write a school report.



» The CPU: It is a type of hardware used to process data.



- It is important to save your work regularly.

Lesson 4

» Assistive Technology: It helps people of determination (disabilities) with tasks that they find difficult to do.

Assistive Technology	Function
• Screen magnification software	• It helps people with visual impairments. • It enlarges everything on the computer screen.
• Hearing Aids	• They help people with hearing difficulties. • Modern versions come with apps that are connected to mobiles.
• Alternate communication software	• It helps people with speech or language difficulties. • Example: text-to-speech software
• Paraclimbing tools	• They help individuals who lost limbs or have mobility impairments to <u>climb</u>.



Lesson 5

» ICT tools might have a temporary breakdown or failure.

- 1 If an app doesn't open: Restart → Check for updates → Uninstall & reinstall the app.
- 2 If the mouse/keyboard doesn't work: Make sure it is connected correctly, then restart → Replace the mouse/keyboard with a new one.
- 3 If your screen freezes: Press "Alt + Ctrl + Del" → Restart.
- 4 If you can't find a file: Use the Search Box in the Start menu.



- 1 Restarting a device can often solve many common ICT problems.
- 2 If you have tried but can't solve the problem, the last step is to ask your teacher or family for help.



1 Choose the correct answer:

- 1 Scientists use to detect metals and treasures underground.
a. the GPS b. satellites c. Rover C4 d. touch screens
- 2 The uses a radar to find objects buried under the ground.
a. magnetometer b. GPR c. GPS d. Braille terminal
- 3 The measures the magnetic field.
a. magnetometer b. GPR c. GPS d. screen
- 4 The Global Positioning System (GPS) depends on the
a. radar b. satellites c. magnets d. wires
- 5 can create 3D images of objects underground.
a. Rover C4 b. The GPS c. Excel d. The GPR
- 6 Rover C4 allows scientists to determine the of the object.
a. location b. depth c. size d. both a and b
- 7 The computer is an electronic device that can
a. store data b. process data
c. retrieve data d. all of them
- 8 The device used to enter sound into a computer is the
a. speaker b. microphone
c. screen d. keyboard
- 9 The allows blind people to use the computer.
a. Braille terminal b. speaker c. keyboard d. CPU
- 10 The converts text into speech to help non-verbal people.
a. camera b. printer c. speech synthesizer d. mouse
- 11 Touch screen devices can work as
a. input devices b. output devices
c. both a and b d. none of them
- 12 The most important element of the computer system is the
a. CPU b. printer c. user d. speaker

- 13 The CPU is a part of the
 a. hardware b. software c. application d. network
- 14 is an example of an operating system.
 a. MS Word b. PowerPoint c. Windows d. Paint
- 15 When you type on the keyboard, the displays what you wrote on the screen.
 a. mouse b. CPU
 c. operating system d. router
- 16 The software used to write and format text is
 a. Microsoft Word b. Excel c. PowerPoint d. the GPS
- 17 Assistive technology helps
 a. scientists b. engineers
 c. people of determination d. gamers
- 18 is/are used by people with poor vision to enlarge the screen.
 a. Hearing aids b. Screen magnification software
 c. Microphones d. Braille
- 19 The helps people with speech disabilities communicate with others.
 a. GPS
 b. alternate communication software
 c. GPR d. keyboard
- 20 A person with limb differences can climb mountains using the
 a. GPS b. screen magnifier
 c. paraclimbing tools d. mouse
- 21 Modern hearing aids can be connected to
 a. routers b. satellites c. mobile devices d. speakers
- 22 The operating system communicates with the to process data.
 a. keyboard b. CPU c. mouse d. printer
- 23 If a student wants to find a museum location, he can use
 a. Rover C4 b. the GPR c. the GPS d. Excel

- 24 The is an input device.
 a. printer b. speaker c. microphone d. screen
- 25 The is an output device.
 a. mouse b. keyboard c. camera d. Braille terminal
- 26 The enables you to enter photos into the computer.
 a. screen b. speaker c. camera d. mouse
- 27 When an application won't open, you should
 a. remove the mouse b. replace the keyboard
 c. check the cables d. restart the computer
- 28 Press and hold the "Ctrl + Alt + Del" buttons when
 a. you can't find a file b. the screen freezes
 c. an app can't open d. none of them
- 29 If you download a file from the Internet to your PC, you can find it in the folder.
 a. Downloads b. Pictures
 c. Documents d. Music
- 30 If the mouse cursor isn't working, you can
 a. replace the keyboard b. replace the mouse
 c. search using the Search Box d. delete the programs

2 Put (✓) or (X):

- 1 Rover C4 creates 3D images of scanned areas. ()
- 2 Magnetometers are used to detect satellites. ()
- 3 The GPS relies on satellites to find locations. ()
- 4 The GPR is used to find objects underground. ()
- 5 Satellites are used underground. ()
- 6 A computer can be used to play games and browse the Internet. ()
- 7 The microphone is an output device. ()
- 8 The printer is used to output documents on paper. ()
- 9 The user is the most important part of the computer system. ()

- 10 The CPU is a software used to process data. ()
- 11 Windows is an operating system. ()
- 12 The CPU processes the data coming from the operating system. ()
- 13 Microsoft Word is an example of hardware. ()
- 14 The operating system helps open and run programs. ()
- 15 The speech synthesizer is an input device. ()
- 16 Assistive technology helps people of determination. ()
- 17 The screen magnification software helps people with hearing problems. ()
- 18 Hearing aids help people with speech problems. ()
- 19 Alternate communication software helps people with speech disabilities. ()
- 20 Paracimbing tools help people with limb differences climb. ()
- 21 People of determination cannot use assistive technology. ()
- 22 The CPU communicates directly with the operating system. ()
- 23 The GPR stands for Ground Penetrating Radar. ()
- 24 Touch screens can be used both for input and output functions. ()
- 25 A magnetometer uses a radar to find objects underground. ()
- 26 All computer devices have the same shape. ()
- 27 It is important to save your work regularly when using a computer. ()
- 28 If the screen freezes, press and hold "Ctrl, Alt, and Del". ()
- 29 If you are looking for a Word file, look in the Pictures folder. ()
- 30 Using the Search Box helps you find any file on your PC. ()



Answers

- 1**
- | | | | |
|------|------|------|------|
| 1 c | 2 b | 3 a | 4 b |
| 5 a | 6 d | 7 d | 8 b |
| 9 a | 10 c | 11 c | 12 c |
| 13 a | 14 c | 15 c | 16 a |
| 17 c | 18 b | 19 b | 20 c |
| 21 c | 22 b | 23 c | 24 c |
| 25 d | 26 c | 27 d | 28 b |
| 29 a | 30 b | | |

- 2**
- | | | | |
|------|------|------|------|
| 1 ✓ | 2 ✗ | 3 ✓ | 4 ✓ |
| 5 ✗ | 6 ✓ | 7 ✗ | 8 ✓ |
| 9 ✓ | 10 ✗ | 11 ✓ | 12 ✓ |
| 13 ✗ | 14 ✓ | 15 ✗ | 16 ✓ |
| 17 ✗ | 18 ✗ | 19 ✓ | 20 ✓ |
| 21 ✗ | 22 ✓ | 23 ✓ | 24 ✓ |
| 25 ✗ | 26 ✗ | 27 ✓ | 28 ✓ |
| 29 ✗ | 30 ✓ | | |

